

Day 9, Today's Topic

Const and Let



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/* ------ */
/* ----- Daily JS - Day 9 ----- */
/* ----- */
```

Day 9: const and let

Today's topic is rather simple than everything we have discussed so far, and we won't be needing much time on trying to understand it.

Even thought it's pretty simple, it still required to be discussed on a separate day in our DailyJS initiative because of it's importance. After `const` and `let` were introduced, people rarely use the `var` keyword now, so you can understnad how important these two are.

So coming on to the main topic, `const` and `let` are the ways of declaring the variables.

You might be aware of the `var` keyword. Earlier (and it's still acceptable but not recommended) people used to declare variables using `var` keyword.

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/* =================== */
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 ## Syntax
 Syntax is pretty simple, just like you declare variables in
 other languages, or even JavaScript with `var`, you can declare
 variables using `const` and `let`.
 Some very important things about them which we should always
 keep in mind is that
 1. They both are 'block scoped',
 2. `let` can be reassigned
 3. `const` cannot be reassigned
 **const**
 · ` js
 const <variable_name> = <value>
 **let**
 let <variable name> = <value>
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/* ============================ */
 /**
 * const let example
  */
 const name = "Madhav";
 let profession = "Student";
 let age = 21;
 console.log ("Name: ", name);
 console.log ("Profession: ", profession);
 console.log ("Age: ", age);
 // Let's say 1 year passed and his profession changed
 // We can reassign
 // name = "Madhav new"; → This will give an error
 profession = "Software Engineer";
 age = 22;
 console.log ("/* ===== After a year ===== */");
 console.log ("Name: ", name);
 console.log ("Profession: ", profession);
 console.log ("Age: ", age);
```

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## What's the problem with 'var' though?
 To be honest, there were no major problems with `var`, but there were
 some possibilities of "messing things up".
 I know it might sound funny, but it's true.
 Let's consider this example,
 var name = "Madhav"
 console.log (name); // Madhav
 var age:
 console.log (age); // Undefined. No errors
 Doing anything with uninitialized variables should give an error,
 but it won't
 Let's see another example, `var` is not block scoped, before `const`
 and `let`, variables were either having global scope or function scope,
 not block scope.
 var animal1 = "dog";
 if (animal1 	≡ "dog") {
    var animal1 = "cat";
 console.log (animal1); // Should give "dog", but prints "cat"
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 **Let's solve both the issues adressed above**
 ## Issue 1 - solved using const
 ···js
   var name = "Madhav"
   console.log (name); // Madhav
   var age;
   console.log (age); // Undefined. No errors
   const name1 = "Madhav";
   console.log (name1); // Madhav
   const age1;
   console.log (age1); // Error!
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/* ------* */
 ## Issue 2 - Solved using block scoped let and const
 /**
 * var is not block scoped
 * let and const are block scoped
 // #1: var
 var animal1 = "dog";
 if (animal1 ≡ "dog") {
   var animal1 = "cat";
 console.log (animal1); // cat "Ohh no!"
 // #2: let
 let animal2 = "dog":
 if (animal2 == "dog") {
   let animal2 = "cat";
 console.log (animal2); // dog "Perfect :)"
 // #3 const
 const animal3 = "dog";
 if (animal3 	≡ "dog") {
   const animal3 = "cat";
 console.log (animal3); // dog "Perfect :)";
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/* ============ */
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 ## Properties of `const`
 Before ending today's topic, it's important to
 put forward some important properties of `const`
 so that you don't mess things up while using it in future.
 `const` can be seen as somewhat similar to constant
 in other languages.
 1. `const` is **read-only**
 2. It can't be redeclared
 3. It can't be reassigned
 4. Even so, it is mutable,
    Object and arrary values can be modified.
 That's it. See you tomorrow:)
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Thank you!

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